

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-44867-1

Client Project/Site: EMD

For:

TRC Environmental Corp-Payne Firm

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Cincinnati, Ohio 45242

Attn: Curt Kugler

Patrick O'Meara

Authorized for release by:

12/3/2014 4:53:13 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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## Definitions/Glossary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Job ID: 240-44867-1**

**Laboratory: TestAmerica Canton**

Narrative

### CASE NARRATIVE

**Client: TRC Environmental Corp-Payne Firm**

**Project: EMD**

**Report Number: 240-44867-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

The samples were received on 11/26/2014 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

#### VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples EFFLUENT/112514 (240-44867-1) and TB01/112514 (240-44867-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/02/2014 and 12/03/2014.

Methylene Chloride was detected in method blank MB 240-159290/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for batch 159270 recovered outside control limits for Acrolein and Vinyl acetate. These have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Sample EFFLUENT/112514 (240-44867-1) had a reanalysis that had different results than the original analysis. Both runs are reported. Three vials were provided. The initial reported run was analyzed from the second vial undiluted based upon screen results from the first vial that indicated undiluted analysis was indicated. Two compounds (acetone and 2-butanone) in this run were found to be over calibration range, so the third vial was run at a dilution to bring the over range compounds within calibration range. This dilution run matched the original screen results and many compounds were ND with a dilution, so this run has been discarded. The original screen vial (now with headspace) was rerun undiluted and reported as a second analysis (RA). Except for the two compounds acetone and

## Case Narrative

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

### Job ID: 240-44867-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

2-butanone, results between the two vials compare favorably, indicating possible contamination in one vial for the two non-matching compounds.

The reanalysis (RA) of following volatile sample was analyzed with significant headspace (a bubble greater than 6 mm in diameter) in the sample vial: EFFLUENT/112514 (240-44867-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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## Sample Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44867-1	EFFLUENT/112514	Water	11/25/14 10:25	11/26/14 10:20
240-44867-2	TB01/112514	Water	11/25/14 00:00	11/26/14 10:20

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TestAmerica Canton

# Detection Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: EFFLUENT/112514**

**Lab Sample ID: 240-44867-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	960	E	10	3.4	ug/L	1		8260B	Total/NA
Benzene	9.6		1.0	0.24	ug/L	1		8260B	Total/NA
Bromoform	1.4		1.0	0.56	ug/L	1		8260B	Total/NA
2-Butanone	120	E	10	4.1	ug/L	1		8260B	Total/NA
Carbon tetrachloride	0.48	J	1.0	0.17	ug/L	1		8260B	Total/NA
Chloroform	9.4		1.0	0.21	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	24		1.0	0.26	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	11		1.0	0.20	ug/L	1		8260B	Total/NA
1,4-Dioxane	160		50	40	ug/L	1		8260B	Total/NA
Ethylbenzene	0.33	J	1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2,2-Tetrachloroethane	5.6		1.0	0.22	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.37	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.4		1.0	0.22	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	1.7		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	0.20	J	1.0	0.15	ug/L	1		8260B	Total/NA
Acetone - RA	31		10	3.4	ug/L	1		8260B	Total/NA
Benzene - RA	9.1		1.0	0.24	ug/L	1		8260B	Total/NA
Bromoform - RA	1.4		1.0	0.56	ug/L	1		8260B	Total/NA
Carbon tetrachloride - RA	0.47	J	1.0	0.17	ug/L	1		8260B	Total/NA
Chloroform - RA	10		1.0	0.21	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - RA	0.60	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,1-Dichloroethane - RA	28		1.0	0.26	ug/L	1		8260B	Total/NA
1,2-Dichloroethane - RA	13		1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethene, Total - RA	0.60	J	2.0	0.20	ug/L	1		8260B	Total/NA
1,4-Dioxane - RA	190		50	40	ug/L	1		8260B	Total/NA
Ethylbenzene - RA	0.28	J	1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2,2-Tetrachloroethane - RA	5.1		1.0	0.22	ug/L	1		8260B	Total/NA
Tetrachloroethene - RA	0.32	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane - RA	3.7		1.0	0.22	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane - RA	1.8		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene - RA	0.24	J	1.0	0.15	ug/L	1		8260B	Total/NA

**Client Sample ID: TB01/112514**

**Lab Sample ID: 240-44867-2**

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: EFFLUENT/112514**

**Lab Sample ID: 240-44867-1**

**Matrix: Water**

Date Collected: 11/25/14 10:25

Date Received: 11/26/14 10:20

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>960</b>	<b>E</b>	10	3.4	ug/L			12/02/14 19:55	1
Acetonitrile	ND		20	9.2	ug/L			12/02/14 19:55	1
Acrolein	ND		20	1.4	ug/L			12/02/14 19:55	1
Acrylonitrile	ND		20	6.3	ug/L			12/02/14 19:55	1
<b>Benzene</b>	<b>9.6</b>		1.0	0.24	ug/L			12/02/14 19:55	1
Bromodichloromethane	ND		1.0	0.15	ug/L			12/02/14 19:55	1
<b>Bromoform</b>	<b>1.4</b>		1.0	0.56	ug/L			12/02/14 19:55	1
Bromomethane	ND		1.0	0.63	ug/L			12/02/14 19:55	1
<b>2-Butanone</b>	<b>120</b>	<b>E</b>	10	4.1	ug/L			12/02/14 19:55	1
Carbon disulfide	ND		1.0	0.28	ug/L			12/02/14 19:55	1
<b>Carbon tetrachloride</b>	<b>0.48</b>	<b>J</b>	1.0	0.17	ug/L			12/02/14 19:55	1
Chlorobenzene	ND		1.0	0.19	ug/L			12/02/14 19:55	1
Chloroethane	ND		1.0	0.33	ug/L			12/02/14 19:55	1
<b>Chloroform</b>	<b>9.4</b>		1.0	0.21	ug/L			12/02/14 19:55	1
Chloromethane	ND		1.0	0.44	ug/L			12/02/14 19:55	1
Chloroprene	ND		2.0	0.26	ug/L			12/02/14 19:55	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			12/02/14 19:55	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/02/14 19:55	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			12/02/14 19:55	1
Dibromochloromethane	ND		1.0	0.43	ug/L			12/02/14 19:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			12/02/14 19:55	1
Dibromomethane	ND		1.0	0.17	ug/L			12/02/14 19:55	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/02/14 19:55	1
<b>1,1-Dichloroethane</b>	<b>24</b>		1.0	0.26	ug/L			12/02/14 19:55	1
<b>1,2-Dichloroethane</b>	<b>11</b>		1.0	0.20	ug/L			12/02/14 19:55	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			12/02/14 19:55	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			12/02/14 19:55	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			12/02/14 19:55	1
<b>1,4-Dioxane</b>	<b>160</b>		50	40	ug/L			12/02/14 19:55	1
<b>Ethylbenzene</b>	<b>0.33</b>	<b>J</b>	1.0	0.23	ug/L			12/02/14 19:55	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			12/02/14 19:55	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			12/02/14 19:55	1
2-Hexanone	ND		10	3.9	ug/L			12/02/14 19:55	1
Iodomethane	ND		1.0	0.42	ug/L			12/02/14 19:55	1
Isobutanol	ND		50	12	ug/L			12/02/14 19:55	1
Methacrylonitrile	ND		2.0	0.70	ug/L			12/02/14 19:55	1
Methylene Chloride	ND		1.0	0.28	ug/L			12/02/14 19:55	1
Methyl methacrylate	ND		2.0	0.99	ug/L			12/02/14 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			12/02/14 19:55	1
Propionitrile	ND		4.0	0.95	ug/L			12/02/14 19:55	1
Styrene	ND		1.0	0.45	ug/L			12/02/14 19:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			12/02/14 19:55	1
<b>1,1,2,2-Tetrachloroethane</b>	<b>5.6</b>		1.0	0.22	ug/L			12/02/14 19:55	1
<b>Tetrachloroethene</b>	<b>0.37</b>	<b>J</b>	1.0	0.20	ug/L			12/02/14 19:55	1
Toluene	ND		1.0	0.22	ug/L			12/02/14 19:55	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			12/02/14 19:55	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			12/02/14 19:55	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			12/02/14 19:55	1
<b>1,1,1-Trichloroethane</b>	<b>3.4</b>		1.0	0.22	ug/L			12/02/14 19:55	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: EFFLUENT/112514**  
**Date Collected: 11/25/14 10:25**  
**Date Received: 11/26/14 10:20**

**Lab Sample ID: 240-44867-1**  
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.7		1.0	0.17	ug/L			12/02/14 19:55	1
Trichloroethene	0.20	J	1.0	0.15	ug/L			12/02/14 19:55	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			12/02/14 19:55	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			12/02/14 19:55	1
Vinyl acetate	ND		2.0	0.41	ug/L			12/02/14 19:55	1
Vinyl chloride	ND		1.0	0.29	ug/L			12/02/14 19:55	1
Xylenes, Total	ND		2.0	0.43	ug/L			12/02/14 19:55	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	93			66 - 120				12/02/14 19:55	1
Dibromofluoromethane (Surr)	105			75 - 121				12/02/14 19:55	1
1,2-Dichloroethane-d4 (Surr)	98			63 - 129				12/02/14 19:55	1
Toluene-d8 (Surr)	99			74 - 120				12/02/14 19:55	1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		10	3.4	ug/L			12/03/14 12:58	1
Acetonitrile	ND		20	9.2	ug/L			12/03/14 12:58	1
Acrolein	ND *		20	1.4	ug/L			12/03/14 12:58	1
Acrylonitrile	ND		20	6.3	ug/L			12/03/14 12:58	1
Benzene	9.1		1.0	0.24	ug/L			12/03/14 12:58	1
Bromodichloromethane	ND		1.0	0.15	ug/L			12/03/14 12:58	1
Bromoform	1.4		1.0	0.56	ug/L			12/03/14 12:58	1
Bromomethane	ND		1.0	0.63	ug/L			12/03/14 12:58	1
2-Butanone	ND		10	4.1	ug/L			12/03/14 12:58	1
Carbon disulfide	ND		1.0	0.28	ug/L			12/03/14 12:58	1
Carbon tetrachloride	0.47	J	1.0	0.17	ug/L			12/03/14 12:58	1
Chlorobenzene	ND		1.0	0.19	ug/L			12/03/14 12:58	1
Chloroethane	ND		1.0	0.33	ug/L			12/03/14 12:58	1
Chloroform	10		1.0	0.21	ug/L			12/03/14 12:58	1
Chloromethane	ND		1.0	0.44	ug/L			12/03/14 12:58	1
Chloroprene	ND		2.0	0.26	ug/L			12/03/14 12:58	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			12/03/14 12:58	1
cis-1,2-Dichloroethene	0.60	J	1.0	0.20	ug/L			12/03/14 12:58	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			12/03/14 12:58	1
Dibromochloromethane	ND		1.0	0.43	ug/L			12/03/14 12:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			12/03/14 12:58	1
Dibromomethane	ND		1.0	0.17	ug/L			12/03/14 12:58	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/03/14 12:58	1
1,1-Dichloroethane	28		1.0	0.26	ug/L			12/03/14 12:58	1
1,2-Dichloroethane	13		1.0	0.20	ug/L			12/03/14 12:58	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			12/03/14 12:58	1
1,2-Dichloroethene, Total	0.60	J	2.0	0.20	ug/L			12/03/14 12:58	1
1,2-Dichloropropene	ND		1.0	0.22	ug/L			12/03/14 12:58	1
1,4-Dioxane	190		50	40	ug/L			12/03/14 12:58	1
Ethylbenzene	0.28	J	1.0	0.23	ug/L			12/03/14 12:58	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			12/03/14 12:58	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			12/03/14 12:58	1
2-Hexanone	ND		10	3.9	ug/L			12/03/14 12:58	1
Iodomethane	ND		1.0	0.42	ug/L			12/03/14 12:58	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: EFFLUENT/112514**  
**Date Collected: 11/25/14 10:25**  
**Date Received: 11/26/14 10:20**

**Lab Sample ID: 240-44867-1**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutanol	ND		50	12	ug/L			12/03/14 12:58	1
Methacrylonitrile	ND		2.0	0.70	ug/L			12/03/14 12:58	1
Methylene Chloride	ND		1.0	0.28	ug/L			12/03/14 12:58	1
Methyl methacrylate	ND		2.0	0.99	ug/L			12/03/14 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			12/03/14 12:58	1
Propionitrile	ND		4.0	0.95	ug/L			12/03/14 12:58	1
Styrene	ND		1.0	0.45	ug/L			12/03/14 12:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			12/03/14 12:58	1
<b>1,1,2,2-Tetrachloroethane</b>	<b>5.1</b>		1.0	0.22	ug/L			12/03/14 12:58	1
<b>Tetrachloroethene</b>	<b>0.32 J</b>		1.0	0.20	ug/L			12/03/14 12:58	1
Toluene	ND		1.0	0.22	ug/L			12/03/14 12:58	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			12/03/14 12:58	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			12/03/14 12:58	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			12/03/14 12:58	1
<b>1,1,1-Trichloroethane</b>	<b>3.7</b>		1.0	0.22	ug/L			12/03/14 12:58	1
<b>1,1,2-Trichloroethane</b>	<b>1.8</b>		1.0	0.17	ug/L			12/03/14 12:58	1
<b>Trichloroethene</b>	<b>0.24 J</b>		1.0	0.15	ug/L			12/03/14 12:58	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			12/03/14 12:58	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			12/03/14 12:58	1
Vinyl acetate	ND *		2.0	0.41	ug/L			12/03/14 12:58	1
Vinyl chloride	ND		1.0	0.29	ug/L			12/03/14 12:58	1
Xylenes, Total	ND		2.0	0.43	ug/L			12/03/14 12:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101			66 - 120				12/03/14 12:58	1
Dibromofluoromethane (Surr)	102			75 - 121				12/03/14 12:58	1
1,2-Dichloroethane-d4 (Surr)	104			63 - 129				12/03/14 12:58	1
Toluene-d8 (Surr)	99			74 - 120				12/03/14 12:58	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: TB01/112514**

**Lab Sample ID: 240-44867-2**

**Matrix: Water**

Date Collected: 11/25/14 00:00

Date Received: 11/26/14 10:20

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			12/03/14 11:56	1
Acetonitrile	ND		20	9.2	ug/L			12/03/14 11:56	1
Acrolein	ND *		20	1.4	ug/L			12/03/14 11:56	1
Acrylonitrile	ND		20	6.3	ug/L			12/03/14 11:56	1
Benzene	ND		1.0	0.24	ug/L			12/03/14 11:56	1
Bromodichloromethane	ND		1.0	0.15	ug/L			12/03/14 11:56	1
Bromoform	ND		1.0	0.56	ug/L			12/03/14 11:56	1
Bromomethane	ND		1.0	0.63	ug/L			12/03/14 11:56	1
2-Butanone	ND		10	4.1	ug/L			12/03/14 11:56	1
Carbon disulfide	ND		1.0	0.28	ug/L			12/03/14 11:56	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			12/03/14 11:56	1
Chlorobenzene	ND		1.0	0.19	ug/L			12/03/14 11:56	1
Chloroethane	ND		1.0	0.33	ug/L			12/03/14 11:56	1
Chloroform	ND		1.0	0.21	ug/L			12/03/14 11:56	1
Chloromethane	ND		1.0	0.44	ug/L			12/03/14 11:56	1
Chloroprene	ND		2.0	0.26	ug/L			12/03/14 11:56	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			12/03/14 11:56	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			12/03/14 11:56	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			12/03/14 11:56	1
Dibromochloromethane	ND		1.0	0.43	ug/L			12/03/14 11:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			12/03/14 11:56	1
Dibromomethane	ND		1.0	0.17	ug/L			12/03/14 11:56	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			12/03/14 11:56	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			12/03/14 11:56	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			12/03/14 11:56	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			12/03/14 11:56	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			12/03/14 11:56	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			12/03/14 11:56	1
1,4-Dioxane	ND		50	40	ug/L			12/03/14 11:56	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/03/14 11:56	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			12/03/14 11:56	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			12/03/14 11:56	1
2-Hexanone	ND		10	3.9	ug/L			12/03/14 11:56	1
Iodomethane	ND		1.0	0.42	ug/L			12/03/14 11:56	1
Isobutanol	ND		50	12	ug/L			12/03/14 11:56	1
Methacrylonitrile	ND		2.0	0.70	ug/L			12/03/14 11:56	1
Methylene Chloride	ND		1.0	0.28	ug/L			12/03/14 11:56	1
Methyl methacrylate	ND		2.0	0.99	ug/L			12/03/14 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			12/03/14 11:56	1
Propionitrile	ND		4.0	0.95	ug/L			12/03/14 11:56	1
Styrene	ND		1.0	0.45	ug/L			12/03/14 11:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			12/03/14 11:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			12/03/14 11:56	1
Tetrachloroethene	ND		1.0	0.20	ug/L			12/03/14 11:56	1
Toluene	ND		1.0	0.22	ug/L			12/03/14 11:56	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			12/03/14 11:56	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			12/03/14 11:56	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			12/03/14 11:56	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			12/03/14 11:56	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: TB01/112514**  
**Date Collected: 11/25/14 00:00**  
**Date Received: 11/26/14 10:20**

**Lab Sample ID: 240-44867-2**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			12/03/14 11:56	1
Trichloroethene	ND		1.0	0.15	ug/L			12/03/14 11:56	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			12/03/14 11:56	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			12/03/14 11:56	1
Vinyl acetate	ND *		2.0	0.41	ug/L			12/03/14 11:56	1
Vinyl chloride	ND		1.0	0.29	ug/L			12/03/14 11:56	1
Xylenes, Total	ND		2.0	0.43	ug/L			12/03/14 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		66 - 120					12/03/14 11:56	1
Dibromofluoromethane (Surr)	97		75 - 121					12/03/14 11:56	1
1,2-Dichloroethane-d4 (Surr)	104		63 - 129					12/03/14 11:56	1
Toluene-d8 (Surr)	97		74 - 120					12/03/14 11:56	1

## Surrogate Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (66-120)	DBFM (75-121)	12DCE (63-129)	TOL (74-120)				
240-44867-1	EFFLUENT/112514	93	105	98	99				
240-44867-1 - RA	EFFLUENT/112514	101	102	104	99				
240-44867-2	TB01/112514	97	97	104	97				
LCS 240-159290/4	Lab Control Sample	103	101	102	101				
MB 240-159290/6	Method Blank	98	97	102	94				

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 240-159290/6**

**Matrix: Water**

**Analysis Batch: 159290**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
Acetone	ND		1	10	3.4	ug/L		12/03/14 10:04	
Acetonitrile	ND		1	20	9.2	ug/L		12/03/14 10:04	
Acrolein	ND		1	20	1.4	ug/L		12/03/14 10:04	
Acrylonitrile	ND		1	20	6.3	ug/L		12/03/14 10:04	
Benzene	ND		1	1.0	0.24	ug/L		12/03/14 10:04	
Bromodichloromethane	ND		1	1.0	0.15	ug/L		12/03/14 10:04	
Bromoform	ND		1	1.0	0.56	ug/L		12/03/14 10:04	
Bromomethane	ND		1	1.0	0.63	ug/L		12/03/14 10:04	
2-Butanone	ND		1	10	4.1	ug/L		12/03/14 10:04	
Carbon disulfide	ND		1	1.0	0.28	ug/L		12/03/14 10:04	
Carbon tetrachloride	ND		1	1.0	0.17	ug/L		12/03/14 10:04	
Chlorobenzene	ND		1	1.0	0.19	ug/L		12/03/14 10:04	
Chloroethane	ND		1	1.0	0.33	ug/L		12/03/14 10:04	
Chloroform	ND		1	1.0	0.21	ug/L		12/03/14 10:04	
Chloromethane	ND		1	1.0	0.44	ug/L		12/03/14 10:04	
Chloroprene	ND		1	2.0	0.26	ug/L		12/03/14 10:04	
3-Chloro-1-propene	ND		1	2.0	0.84	ug/L		12/03/14 10:04	
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L		12/03/14 10:04	
cis-1,3-Dichloropropene	ND		1	1.0	0.46	ug/L		12/03/14 10:04	
Dibromochloromethane	ND		1	1.0	0.43	ug/L		12/03/14 10:04	
1,2-Dibromo-3-Chloropropane	ND		1	2.0	0.82	ug/L		12/03/14 10:04	
Dibromomethane	ND		1	1.0	0.17	ug/L		12/03/14 10:04	
Dichlorodifluoromethane	ND		1	1.0	0.50	ug/L		12/03/14 10:04	
1,1-Dichloroethane	ND		1	1.0	0.26	ug/L		12/03/14 10:04	
1,2-Dichloroethane	ND		1	1.0	0.20	ug/L		12/03/14 10:04	
1,1-Dichloroethene	ND		1	1.0	0.45	ug/L		12/03/14 10:04	
1,2-Dichloroethene, Total	ND		1	2.0	0.20	ug/L		12/03/14 10:04	
1,2-Dichloropropane	ND		1	1.0	0.22	ug/L		12/03/14 10:04	
1,4-Dioxane	ND		1	50	40	ug/L		12/03/14 10:04	
Ethylbenzene	ND		1	1.0	0.23	ug/L		12/03/14 10:04	
Ethylene Dibromide	ND		1	1.0	0.19	ug/L		12/03/14 10:04	
Ethyl methacrylate	ND		1	1.0	0.44	ug/L		12/03/14 10:04	
2-Hexanone	ND		1	10	3.9	ug/L		12/03/14 10:04	
Iodomethane	ND		1	1.0	0.42	ug/L		12/03/14 10:04	
Isobutanol	ND		1	50	12	ug/L		12/03/14 10:04	
Methacrylonitrile	ND		1	2.0	0.70	ug/L		12/03/14 10:04	
Methylene Chloride	0.369	J	1	1.0	0.28	ug/L		12/03/14 10:04	
Methyl methacrylate	ND		1	2.0	0.99	ug/L		12/03/14 10:04	
4-Methyl-2-pentanone (MIBK)	ND		1	10	3.6	ug/L		12/03/14 10:04	
Propionitrile	ND		1	4.0	0.95	ug/L		12/03/14 10:04	
Styrene	ND		1	1.0	0.45	ug/L		12/03/14 10:04	
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.28	ug/L		12/03/14 10:04	
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.22	ug/L		12/03/14 10:04	
Tetrachloroethene	ND		1	1.0	0.20	ug/L		12/03/14 10:04	
Toluene	ND		1	1.0	0.22	ug/L		12/03/14 10:04	
trans-1,4-Dichloro-2-butene	ND		1	1.0	0.31	ug/L		12/03/14 10:04	
trans-1,2-Dichloroethene	ND		1	1.0	0.26	ug/L		12/03/14 10:04	
trans-1,3-Dichloropropene	ND		1	1.0	0.56	ug/L		12/03/14 10:04	

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-159290/6**

**Matrix: Water**

**Analysis Batch: 159290**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	ND									
1,1,1-Trichloroethane	ND	ND			1.0	0.22	ug/L			12/03/14 10:04	1
1,1,2-Trichloroethane	ND	ND			1.0	0.17	ug/L			12/03/14 10:04	1
Trichloroethene	ND	ND			1.0	0.15	ug/L			12/03/14 10:04	1
Trichlorofluoromethane	ND	ND			1.0	0.49	ug/L			12/03/14 10:04	1
1,2,3-Trichloropropane	ND	ND			1.0	0.30	ug/L			12/03/14 10:04	1
Vinyl acetate	ND	ND			2.0	0.41	ug/L			12/03/14 10:04	1
Vinyl chloride	ND	ND			1.0	0.29	ug/L			12/03/14 10:04	1
Xylenes, Total	ND	ND			2.0	0.43	ug/L			12/03/14 10:04	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	98		66 - 120							12/03/14 10:04	1
Dibromofluoromethane (Surr)	97		75 - 121							12/03/14 10:04	1
1,2-Dichloroethane-d4 (Surr)	102		63 - 129							12/03/14 10:04	1
Toluene-d8 (Surr)	94		74 - 120							12/03/14 10:04	1

**Lab Sample ID: LCS 240-159290/4**

**Matrix: Water**

**Analysis Batch: 159290**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acetone	20.0	18.1		ug/L		91	43 - 136
Acrolein	50.0	96.7	*	ug/L		193	51 - 170
Acrylonitrile	100	105		ug/L		105	66 - 132
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromodichloromethane	10.0	10.3		ug/L		103	72 - 121
Bromoform	10.0	9.61		ug/L		96	40 - 131
Bromomethane	10.0	9.10		ug/L		91	11 - 185
2-Butanone	20.0	18.7		ug/L		94	60 - 126
Carbon disulfide	10.0	10.2		ug/L		102	62 - 142
Carbon tetrachloride	10.0	10.7		ug/L		107	66 - 128
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	9.36		ug/L		94	25 - 153
Chloroform	10.0	10.8		ug/L		108	79 - 120
Chloromethane	10.0	10.9		ug/L		109	44 - 126
3-Chloro-1-propene	10.0	9.17		ug/L		92	40 - 160
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 120
Dibromochloromethane	10.0	9.86		ug/L		99	64 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.55		ug/L		86	42 - 136
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Dichlorodifluoromethane	10.0	8.18		ug/L		82	19 - 129
1,1-Dichloroethane	10.0	11.0		ug/L		110	80 - 120
1,2-Dichloroethane	10.0	11.1		ug/L		111	71 - 127
1,1-Dichloroethene	10.0	10.3		ug/L		103	78 - 131
1,2-Dichloroethene, Total	20.0	21.2		ug/L		106	80 - 120
1,2-Dichloropropene	10.0	10.7		ug/L		107	80 - 120
1,4-Dioxane	200	209		ug/L		104	50 - 150
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-159290/4**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

**Analysis Batch: 159290**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Ethylene Dibromide	10.0	10.3		ug/L		103	79 - 120
Ethyl methacrylate	10.0	10.9		ug/L		109	40 - 160
2-Hexanone	20.0	21.0		ug/L		105	55 - 133
Iodomethane	10.0	11.3		ug/L		113	72 - 141
Isobutanol	250	261		ug/L		104	40 - 160
Methylene Chloride	10.0	10.8		ug/L		108	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	20.0		ug/L		100	63 - 128
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
o-Xylene	10.0	10.6		ug/L		106	80 - 120
Styrene	10.0	10.2		ug/L		102	79 - 120
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	72 - 120
1,1,2,2-Tetrachloroethane	10.0	9.09		ug/L		91	68 - 120
Tetrachloroethene	10.0	10.5		ug/L		105	79 - 120
Toluene	10.0	10.4		ug/L		104	80 - 120
trans-1,4-Dichloro-2-butene	10.0	7.57		ug/L		76	10 - 199
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	58 - 120
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	74 - 120
1,1,2-Trichloroethane	10.0	9.98		ug/L		100	80 - 120
Trichloroethene	10.0	10.3		ug/L		103	76 - 120
Trichlorofluoromethane	10.0	10.3		ug/L		103	49 - 157
1,2,3-Trichloropropane	10.0	9.24		ug/L		92	73 - 129
Vinyl acetate	8.00	3.62 *		ug/L		45	46 - 161
Vinyl chloride	10.0	10.6		ug/L		106	53 - 127
Xylenes, Total	20.0	21.1		ug/L		106	80 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		66 - 120
Dibromofluoromethane (Surr)	101		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		63 - 129
Toluene-d8 (Surr)	101		74 - 120

# QC Association Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

## GC/MS VOA

### Analysis Batch: 159122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44867-1	EFFLUENT/112514	Total/NA	Water	8260B	

### Analysis Batch: 159290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44867-1 - RA	EFFLUENT/112514	Total/NA	Water	8260B	
240-44867-2	TB01/112514	Total/NA	Water	8260B	
LCS 240-159290/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-159290/6	Method Blank	Total/NA	Water	8260B	

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# Lab Chronicle

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

**Client Sample ID: EFFLUENT/112514**

**Lab Sample ID: 240-44867-1**

**Matrix: Water**

**Date Collected: 11/25/14 10:25**

**Date Received: 11/26/14 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	159290	12/03/14 12:58	RJQ	TAL CAN
Total/NA	Analysis	8260B		1	159122	12/02/14 19:55	RJQ	TAL CAN

**Client Sample ID: TB01/112514**

**Lab Sample ID: 240-44867-2**

**Matrix: Water**

**Date Collected: 11/25/14 00:00**

**Date Received: 11/26/14 10:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	159290	12/03/14 11:56	RJQ	TAL CAN

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-44867-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-15

\* Certification renewal pending - certification considered valid.

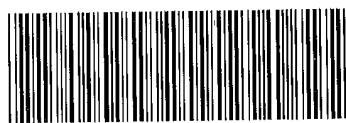
TestAmerica Canton

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

**CHAIN OF CUSTODY  
AND  
RECEIVING DOCUMENTS**



240-44867 Chain of Custody



TestAmerica Canton Sample Receipt Form/Narrative Canton Facility						Login # : <u>449467</u>
Client <u>TRC Environmental</u>	Name <u>11-26-14</u>	Opened on <u>11-26-14</u>				Cooler unpacked by: <u>Jakota Churna</u>
Cooler Received on <u>11-26-14</u>	Opened on <u>11-26-14</u>	FedEx: <u>f<sup>t</sup></u> Grd <u>Exp</u> UPS FAS Stetson	Client Drop Off	TestAmerica Courier	Other	
Receipt After-hours: Drop-off Date/Time			Storage Location			
TestAmerica Cooler #	Foam Box	Client Cooler	Box	Other		
Packing material used:	<u>Bubble Wrap</u>	Foam	Plastic Bag	None	Other	
COOLANT:	<u>Wet Ice</u>	Blue Ice	Dry Ice	Water	None	
1.	Cooler temperature upon receipt					
IR GUN# A (CF +4.0 °C)	Observed Cooler Temp. <u>7.8</u> °C		Corrected Cooler Temp. <u>7.8</u> °C			
IR GUN# 4 (CF +1.2 °C)	Observed Cooler Temp. <u>7.8</u> °C		Corrected Cooler Temp. <u>7.8</u> °C	<input type="checkbox"/> See Multiple Cooler Form		
IR GUN# 5 (CF +0.4 °C)	Observed Cooler Temp. <u>7.8</u> °C		Corrected Cooler Temp. <u>7.8</u> °C			
IR GUN# 8 (CF +0.7 °C)	Observed Cooler Temp. <u>7.8</u> °C		Corrected Cooler Temp. <u>7.8</u> °C			
2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>					
-Were custody seals on the outside of the cooler(s) signed & dated?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
-Were custody seals on the bottle(s)?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
3. Shippers' packing slip attached to the cooler(s)?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
4. Did custody papers accompany the sample(s)?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
5. Were the custody papers relinquished & signed in the appropriate place?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
6. Did all bottles arrive in good condition (Unbroken)?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
7. Could all bottle labels be reconciled with the COC?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
8. Were correct bottle(s) used for the test(s) indicated?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
9. Sufficient quantity received to perform indicated analyses?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
10. Were sample(s) at the correct pH upon receipt?	<u>Yes</u>	<u>No</u>	<u>NA</u>	pH Strip Lot# <u>HC425511</u>		
11. Were VOAs on the COC?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
12. Were air bubbles >6 mm in any VOA vials?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
13. Was a trip blank present in the cooler(s)?	<u>Yes</u>	<u>No</u>	<u>NA</u>			
Contacted PM _____ Date _____ by _____	via Verbal Voice Mail Other					
Concerning _____						Samples processed by: <u>MK</u>
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES						
<p>_____ _____ _____ _____ _____ _____ _____ _____</p>						
15. SAMPLE CONDITION						
Sample(s) _____ were received after the recommended holding time had expired.						
Sample(s) _____ were received in a broken container.						
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)						
16. SAMPLE PRESERVATION						
Sample(s) _____ were further preserved in the laboratory.						
Time preserved: _____ Preservative(s) added/Lot number(s): _____						